Missouri Botanical Garden
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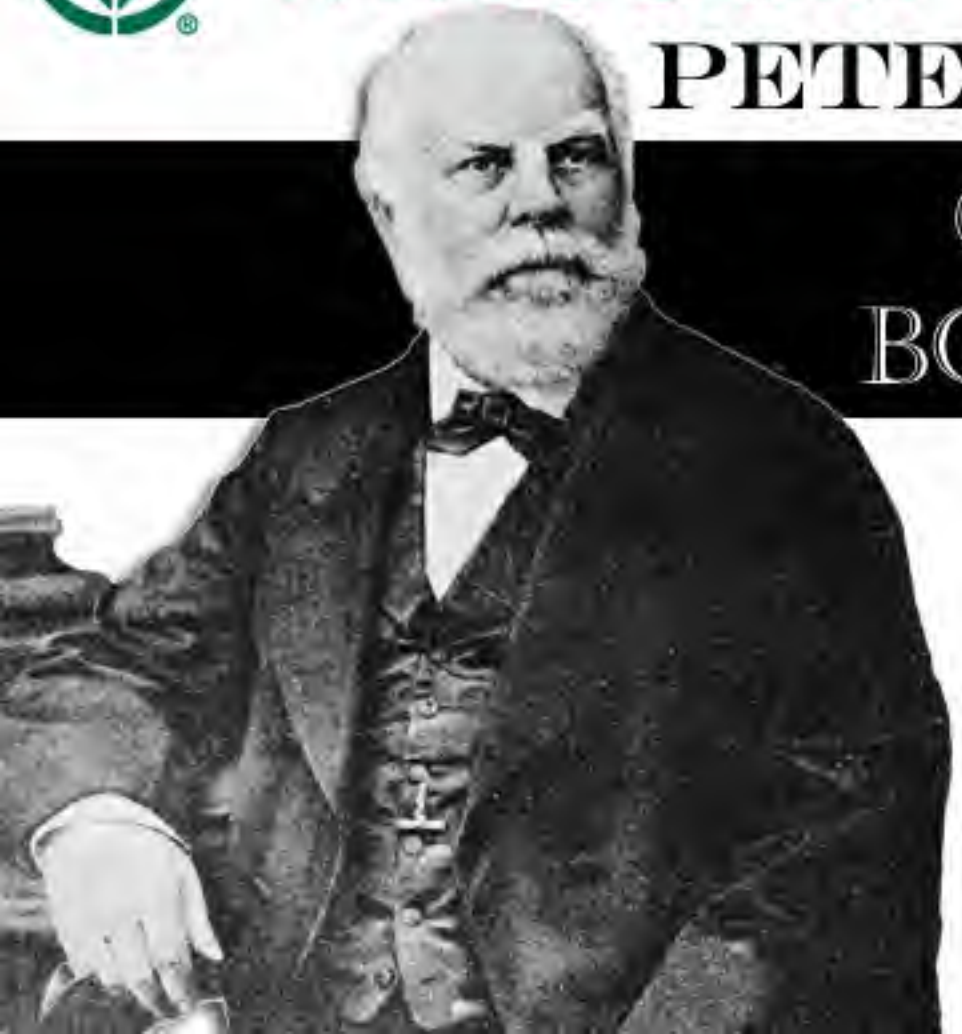


Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

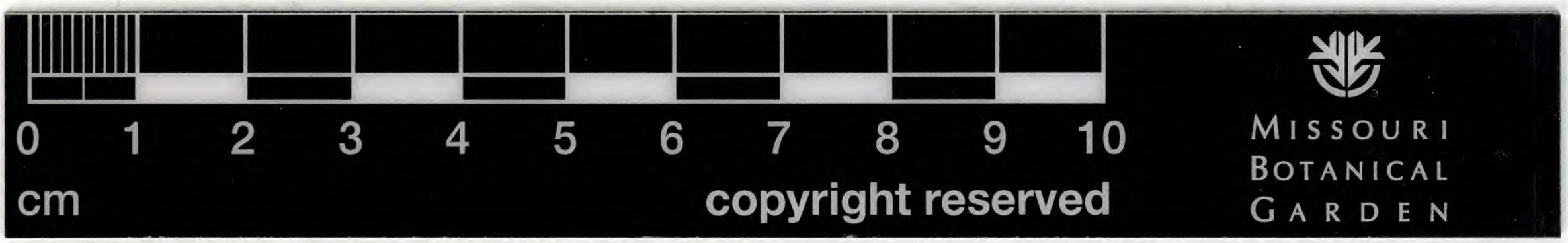
Abies concolor

Utah Siler

Cotyledons 6.6.6.6666 = 7

7 = 1

5 5 = 2



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— Abies concolor grew
within ¼ mile of it, north east of
In those canons running into Ord Ck. Cañon
are some fine trees of A. concolor —
three feet in diameter — The high
peaks south of town are covered
with A. concolor — Old trees have
always a very rough bark and never
heaps of old cones about the base
like A. grandis J.S. Brandegee May 1877

0 1 2 3 4 5 6 7 8 9 10
cm
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Abies concolor of California, Lemmon in his Evergreens of California in Pacif. Rural Press, Feb 8 '84

Bark Ashy Gray outside, darker within, and deeply fissured in old trees.

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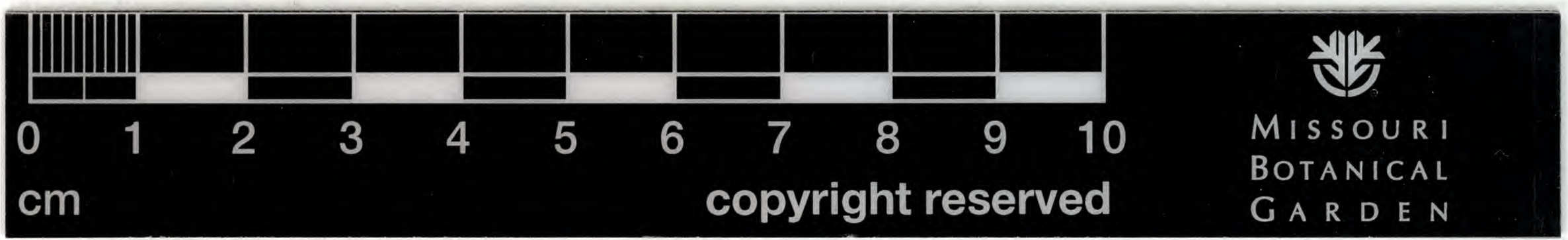
A. Murray on Abies concolor

– Gard. Chronicle 1875. p. 105



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A. arnoldor on Mosca Pass (Sangre de Christo) 9000' alt. with abundance of Pinus flexilis — Bark very rough

T. S. Brandegee 1875

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○ b381. Blanden.

325. Torrey.

subinclusa C. Mugheti Mann Hland, in

5055. Blanden.

○ 2849 "

Rec May 22 1879 May 1st 1879 Davenport

Abies fir!

I have never been satisfied to call the Cal[a] A. grandis = Colorado & Utah A. concolor —

What I know of the latter is from Utah - habit of growth irregular not inclined (when old) to form a spire but more like a clumpy oak bark grayish white very knobby in old trunks - wood durable used for ties = A. Douglasii — foliage broader thicker more glaucous. cones cylindric apple green grows on dry rocky slopes How does this agree with your Colorado sp. which I do not know?

per contra

over

2

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De Barry, May 1879

Abies Lowiana — Grandis (Doc)

San Bernardino Mts

Tree very Symetrical, in well developed trees branches almost as regular as Norfolk Is Pine leaves long & hood only in young plants in Old trees & growing in open ground more rounded in outline. but never as irregular as Abies Concolor grows in most round associated with Libocedrus

See Lemmons young & specimen in Bary & Lemmon 1876 coll

Bark not as clearly white gray as in Utah probably red towards the wood

ask Vasey from Lemmons Centennial Section —

Sierra Valley

A. Magnifica — A. grandis grow together, a form contrasted —

Lemmon noted a peculiar twist in the leaves. distinguishing the two species —

San Bernardino Mts
Missouri Botanical Garden
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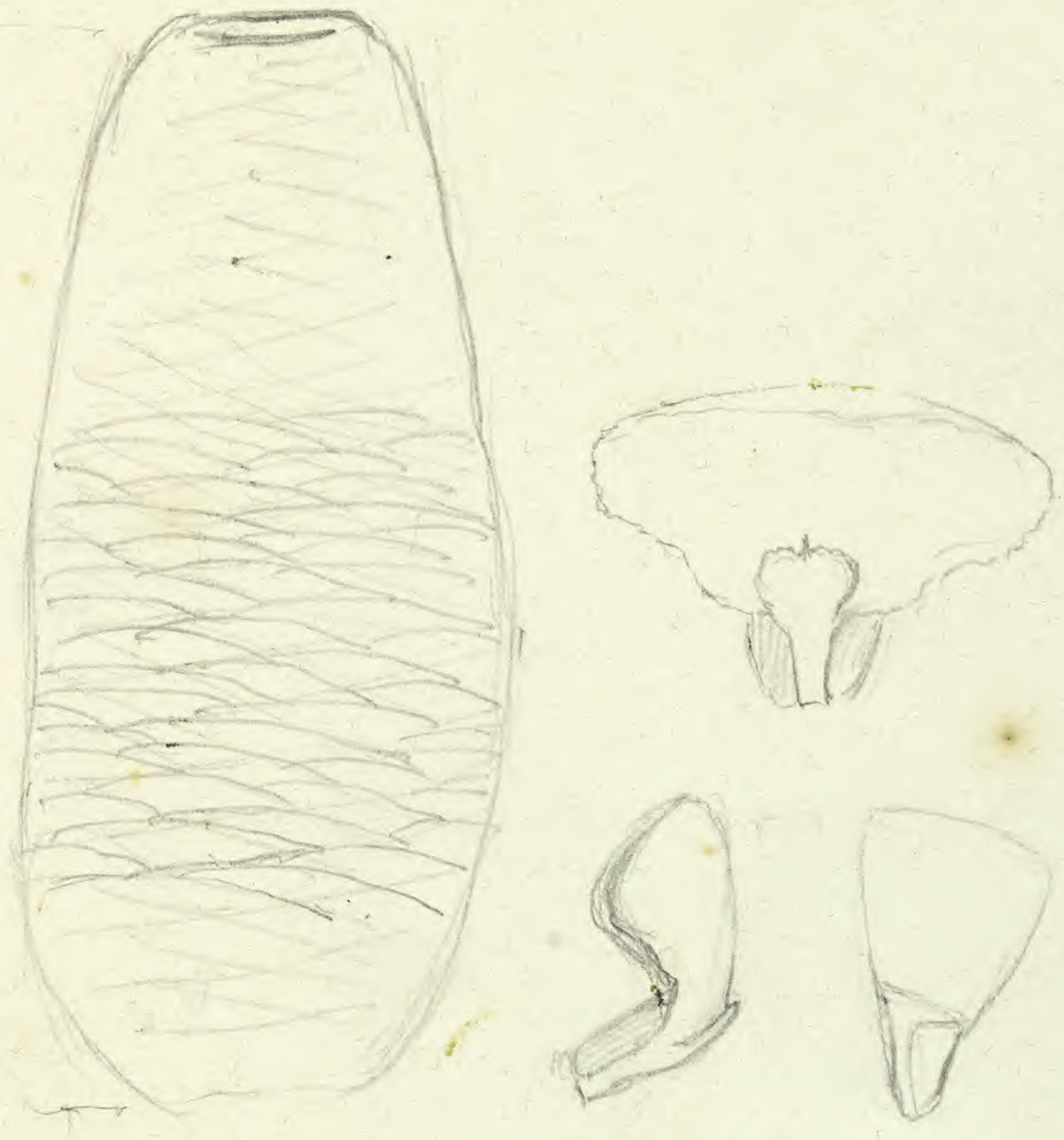
A. convolvens
at Sisson's, Mt. Shasta
Aug 31 1880



scales bent in almost a right angle
i.e. seed hospital and scale erect, so that the fracture of the seed forms a deep cup.
exposed part of scale apple green, balance whitish wings of seeds purplish

A. occidentalis on Mt. Shasta
3 - 6000 feet alt.

(scale 2:1 Twice as wide as high

In A. nobilis (& magnifica) the scales stand at right angles to the axis, only the edge is curved up so that the fractured cone looks like a flat saucer
In convolvens the whole broad scale is curved up, so that the fractured cone represents a deep cup.

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Bolander Dec. 24 1869.

1 Abies grandis [Douglas] has a grayish white bark. Cones horizontal, 3–4 inches long, Narrow rays figures all along here.

called white fir — wood very poor.

Leaves at base twisted

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asold,

BOTANIST,

th (or South) St.,

U.S.

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Sept 21. 1874

Brown: brown cone, found in Glen Eyrie Canon
Colorado
mixed with the apple green ones

only one cone was depressed
in centre

are they more mature?

Scales too large

scales bitter than
the black figure

5 K & Series unit
proportionment

21/34 arrangement.

Cone largest and smallest
seen, mostly obtuse or a little
umbilicate — knobbed at summit, only
one seen, that was a little depressed

These cones were fully mature, closed, fallen off
or thrown off (by birds?) entire and were floating
in the little rivulet

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